



# RACHED CHAKCHOUK

Full Stack Java / Angular Engineer



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## Summary

Full Stack Developer with over 2 years of experience in designing ERP systems using Spring Boot and Angular, complemented by strong expertise in technical project management. Detail-oriented and versatile, I combine strategic vision with hands-on execution to deliver high-performance software solutions tailored to business needs.

## Professional Experience

### C&A TRADE DIGITAL SERVICES Tunisia

August 2023 – Present

Full Stack Java / Angular Engineer

Full-time – On-site

#### ERP Project – Design and Development of HR and Payroll Module

##### Project Objective:

Design and develop the Human Resources (HR) and Payroll module of a comprehensive ERP system, aimed at automating employee management and optimizing the company's HR processes.

##### Responsibilities and Achievements:

- Module Design and Development: Implemented dynamic employee management, including contracts, leave, attendance, performance evaluation, and automatic payroll calculation.
- External Data Integration: Connected to external data sources (API, CSV, Excel) and implemented multilingual functionalities.
- Reporting and Dashboards: Created reports and dashboards for tracking contracts, HR metrics, and payroll, including PDF generation using Jasper Reports.
- UI/UX Optimization: Enhanced user interface and user experience for smooth and intuitive navigation.
- Collaboration and Quality Assurance: Worked closely with the development team to ensure system scalability, security, and maintainability.

**Technologies Used:** IntelliJ IDEA 2023, Spring Boot 3, Java 17, Angular 16, PostgreSQL, Spring Data, Spring Security, Swagger 2, GitLab, RESTful Web Services, Docker, Multitenancy.

### SHILDOM Tunisia

September 2013 – June 2018

Full-time – On-site

Senior Technician / Technical Team Leader / Project Manager and Site Supervisor

#### Senior Technician in Electronic Security and IT Networks (September 2013 – August 2014)

- Installed and configured electronic security systems (CCTV, alarms, access control) for various clients.
- Maintained and troubleshooted internal IT networks, ensuring uninterrupted services.
- Conducted security tests and audits to identify vulnerabilities.

#### Technical Team Leader (September 2014 – August 2015)

- Supervised a technical team of 5–10 members for electronic security and network projects.
- Coordinated installations and maintenance activities, ensuring on-time delivery and quality standards.
- Trained new team members on procedures and best practices.

#### Project Manager and Site Supervisor (September 2015 – June 2018)

- Planned, managed, and executed complex security and IT infrastructure projects for private and public clients.
- Acted as the liaison between clients, technical teams, and management to meet objectives and budgets.
- Implemented project tracking reports and KPIs to optimize productivity.
- Oversaw technical documentation and post-project maintenance protocols.

**Technologies Used:** CCTV systems, alarm systems, access control, TCP/IP, LAN/WAN, project management tools (MS Project, Gantt charts), network troubleshooting, electronic security maintenance.

# Internships

## DITRIOT CONSULTING Tunisia

### Full Stack Engineering Intern

February 2022 – August 2022

#### Final Year Project – Internal Social Network Platform for HR Management

##### Project Objective:

Designed and developed an internal collaborative platform to improve communication, personnel management, and HR processes, based on a modern and scalable microservices architecture.

##### Tasks Performed:

- Conducted requirements analysis, drafted functional specifications, and identified key system actors.
- Designed UML diagrams and defined the microservices architecture.
- Developed microservices for authentication, company, and employee management.
- Built a responsive front-end using Angular for an intuitive user experience.
- Integrated Spring Security for authentication and user role management.
- Developed the back-end using Spring Boot and Spring Data JPA, with persistence managed in MySQL.
- Implemented RESTful services for inter-service communication.
- Managed source code via Git and set up continuous integration with Jenkins.
- Monitored code quality using SonarQube to ensure maintainability and performance.

**Technologies Used:** Angular, Spring Boot, Spring Data, Spring Security, JPA, MySQL, Git, Jenkins, SonarQube, RESTful Web Services, Microservices.

## DSI-ESPRIT TUNISIA

### Full Stack Engineering Intern

July 2021 – September 2021

#### Internship Project – Stock Management Application Project for UTSS

##### Project Objective:

Developed a stock movement management application to accurately track stock entries, exits, and levels within the company, ensuring security and traceability of operations.

##### Tasks Performed:

- Gathered, specified, and analyzed requirements to define the application's key functionalities.
- Identified users and roles within the system to ensure security and controlled access.
- Designed and implemented the database structure for efficient stock data management.
- Developed the overall application architecture to ensure a solid and scalable structure.
- Built the back-end using Spring Boot, managed persistence with JPA, and used MongoDB for data handling.
- Conducted and implemented testing strategies to ensure code quality and reliability.

**Technologies Used:** STS 2021, ReactJS, Spring Boot, Spring Data, Java 11, JPA, MongoDB, SonarQube, RESTful Web Services.

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## Academic Background

### Higher Private School of Engineering and Technology - (ESPRIT) Tunisia

2019-2022

*Bachelor's in Computer Engineering – Software Engineering*

### Faculty of Sciences of Sfax - (FSS) Tunisia

2018-2020

*Master's in Metrology and Instrumentation*

### Faculty of Sciences of Sfax - (FSS) Tunisia

2010-2013

*Applied Bachelor's in Electronics, Electrotechnics, and Automation – Industrial Computer Science*

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## Technical Skills

- Programming Languages:** Java 8 / 17, TypeScript, SQL, HTML, XML
- Frameworks and Technologies:** Angular 16, Spring MVC/Core/Security/Data/Boot/Hibernate, Bootstrap, Log4j, Maven
- Development Tools:** IntelliJ IDEA, Eclipse, Spring Tool Suite, Visual Studio, Git, Jenkins, Docker
- Databases:** MySQL, SQL Server, PostgreSQL
- Methodologies:** Agile, Scrum
- Testing Tools:** JUnit

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## Languages

- English:** Fluent
- French:** Fluent
- Arabic:** Native